

## Ambient Biological Monitoring - DEP

Macroinvertebrate sampling during the 2006 field season will be concentrated in the Penobscot and North Coastal Basins. A significant finding derived from the first phase of the SWAT biological monitoring program is the extent of detrimental impacts to small streams, caused by NPS toxics and physical disturbance in mainly urban areas. Nearly half of all small urban streams sampled have not attained their assigned aquatic life class. A major effort will be undertaken to sample small streams and rivers in the Penobscot and North Coastal Basins this field season. Other stations have been chosen to establish reference conditions or to follow up on stations sampled previously in this watershed. In addition, a subset of stations was selected to address known or potential problem areas outside the major target Basins. All stations will be evaluated to determine if they meet applicable aquatic life standards.

### Proposed Sample Stations for Biological Monitoring (2006)

<b>Waterbody</b>	<b>Location</b>	<b>Issue</b>	<b># Stations</b>	<b>Last Sampled</b>
Birch Stream	Bangor	Urban NPS/Airport	2	2005
Card Brook	Ellsworth	Urban NPS	2	NS
Chandler River	Jonesboro	Reference	1	2001
Dennys River	Meddybemps	Haz Waste/Liming	3	2003
East Br. Penobscot R.	T3R7 WELS	Reference	1	NS
Great Falls Branch	Deblois	Agricultural NPS	1	2001
Kenduskeag Stream	Kenduskeag	Agricultural NPS	1	2001
Kenduskeag Stream	Bangor	Urban NPS	1	1996
Little River	Columbia Falls	Reference	1	NS
Millinocket Stream	Millinocket	Urban NPS	2	1996
Narraguagus River	Beddington	Reference	1	1987
Narraguagus River	Deblois	Agricultural NPS	1	2001
Narraguagus River	Cherryfield	Agricultural NPS	1	2001
Penjajawoc Stream	Bangor	Urban NPS	4	2003
Penobscot River	Orono	Municipal/Industrial	1	1994
Piscataquis River	Abbot	Reference	1	1996
Piscataquis River	Sangerville	Municipal/Industrial	1	1996
Piscataquis River	Dover-Foxcroft	Municipal/Industrial	1	1996
St. Croix River	Baileyville	Municipal/Industrial	1	1992
St. Croix River	Baring	Municipal/Industrial	1	1997
Little River	Columbia Falls	Reference	1	NS
Sebec River	Sebec/Milo	Municipal	2	1985
Shaw Brook	Herman	Urban NPS	1	2001
Sheepscot River	Whitefield	Long Term Monitoring	1	2005
Souadabscook River	Hampden	Landfill	2	1996
Wassataquoik Stream	T3R7 WELS	Maine Ecological Reserve	1	NS

<b>Waterbody</b>	<b>Location</b>	<b>Issue</b>	<b># Stations</b>	<b>Last Sampled</b>
W. Br. Sheepscot R.	China	Long Term Monitoring	1	2005
W. Br. Penobscot River	Millinocket	Industrial	1	1996
W. Br. Pleasant River	KIW	NPS; Metals	1	2001
Unnamed Stream 4	Topsham	Urban NPS	1	2002
Unnamed Stream 2	Topsham	Urban NPS	1	2002

NPS denotes non-point source pollution.

NS denotes previously not sampled.

Total Sites = 40; Cost =\$40,000

Chemical Analysis at 10-20 sites (basic chemistry; selected metals;); Laboratory and Field

Supplies = \$4,000

**Total Cost = \$44,000**